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SEQUENCE LISTING

<110> ALVAREZ, Vernon L.
 GRIMES, Carol A.
 GONDA, Matthew A.

<120> Combination chemotherapy with chlorotoxin

<130> 51530-5006-WO

<150> US 60/406,033

<151> 2002-08-27

<150> US 60/384,171

<151> 2002-05-31

<160> 95

<170> PatentIn version 3.2

<210> 1

<211> 36

<212> PRT

<213> Leiurus quinquestriatus

<220>

<221> misc_feature

<223> Chlorotoxin

<400> 1

Met Cys Met Pro Cys Phe Thr Thr Asp His Gln Met Ala Arg Lys Cys
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Asp Asp Cys Cys Gly Gly Lys Gly Arg Gly Lys Cys Tyr Gly Pro Gln
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Cys Leu Cys Arg
 35

<210> 2

<211> 42

<212> PRT

<213> Leiurus quinquestriatus

<400> 2

His His His His His His Met Cys Met Pro Cys Phe Thr Thr Asp His
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Gln Met Ala Arg Lys Cys Asp Asp Cys Cys Gly Gly Lys Gly Arg Gly
 20 25 30

Lys Cys Tyr Gly Pro Gln Cys Leu Cys Arg
 35 40

<210> 3
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 <213> Leiurus quinquestriatus

<400> 3

Tyr Met Cys Met Pro Cys Phe Thr Thr Asp His Gln Met Ala Arg Lys
 1 5 10 15

Cys Asp Asp Cys Cys Gly Gly Lys Gly Arg Gly Lys Cys Tyr Gly Pro
 20 25 30

Gln Cys Leu Cys Arg
 35

<210> 4
 <211> 39
 <212> PRT
 <213> Leiurus quinquestriatus

<400> 4

Tyr Ser Tyr Met Cys Met Pro Cys Phe Thr Thr Asp His Gln Met Ala
 1 5 10 15

Arg Lys Cys Asp Asp Cys Cys Gly Gly Lys Gly Arg Gly Lys Cys Tyr
 20 25 30

Gly Pro Gln Cys Leu Cys Arg
 35

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 <213> Artificial sequence

<220>
 <223> Chlorotoxin variant

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Met Cys Met Pro Cys Phe Thr Thr Asp His Gln Met Ala Arg Lys Cys
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Asp Asp Cys Cys Gly Gly Lys Gly Arg Gly Lys Cys Phe Gly Pro Gln
 20 25 30

Cys Leu Cys Arg
 35

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 <213> Artificial sequence

<220>
 <223> Chlorotoxin variant

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Arg Cys Lys Pro Cys Phe Thr Thr Asp Pro Gln Met Ser Lys Lys Cys
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Ala Asp Cys Cys Gly Gly Lys Gly Lys Gly Lys Cys Tyr Gly Pro Gln
 20 25 30

Cys Leu Cys
 35

<210> 7
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<220>
 <223> Chlorotoxin variant

<400> 7

Arg Cys Ser Pro Cys Phe Thr Thr Asp Gln Gln Met Thr Lys Lys Cys
 1 5 10 15

Tyr Asp Cys Cys Gly Gly Lys Gly Lys Gly Lys Cys Tyr Gly Pro Gln
 20 25 30

Cys Ile Cys Ala Pro Tyr
 35

<210> 8
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 <213> Leiurus quinquestriatus

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 <223> Derivative of Chlorotoxin: amino acid residues 23-29

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Lys Gly Arg Gly Lys Ser Tyr
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<210> 9
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<220>
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 <223> Derivative of Chlorotoxin: amino acid residues 8-14

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Thr Asp His Gln Met Ala Arg
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<210> 10
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 <223> Chlorotoxin alpha peptide

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Thr Asp His Gln Met Ala Arg Lys Ser
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<220>
 <223> Variant of chlorotoxin alpha peptide

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Thr Ala His Ala Met Ala Arg Lys Ser
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 <223> Variant peptide of chlorotoxin

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Asp Asp Cys Cys Gly Gly Lys Gly Arg Cys Lys Cys Tyr Gly Pro Gln
 20 25 30

Cys Leu Cys Arg
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<210> 13
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<400> 13

Thr Thr Xaa Xaa Xaa Met Xaa Xaa Lys
1 5

<210> 14
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<212> PRT
<213> Leiurus quinquestriatus

<400> 14

Thr Thr Asp His Gln Met Ala Arg Lys
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<210> 15
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<212> PRT
<213> Mesobuthus tamulus

<400> 15

Arg Cys Lys Pro Cys Phe Thr Thr Asp Pro Gln Met Ser Lys Lys Cys
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Ala Asp Cys Cys Gly Gly Lys Gly Lys Gly Lys Cys Tyr Gly Pro Gln
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Cys Leu Cys
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<210> 16
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<220>

<223> Small Toxin consensus sequence

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<223> Xaa can be Met or Lys

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<222> (9)..(9)

<223> Xaa can be His or Pro

<220>

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<222> (16)..(16)

<223> Xaa can be Asp or Ala

<400> 16

Cys	Xaa	Pro	Cys	Phe	Thr	Thr	Asp	Xaa	Gln	Met	Ala	Lys	Lys	Cys	Xaa
1				5					10					15	

Asp	Cys	Cys	Gly	Gly	Lys	Gly	Lys	Gly	Lys	Cys	Tyr	Gly	Pro	Gln	Cys
			20					25					30		

Leu Cys

<210> 17

<211> 38

<212> PRT

<213> Leiurus quinquestriatus

<400> 17

Arg	Cys	Ser	Pro	Cys	Phe	Thr	Thr	Asp	Gln	Gln	Met	Thr	Lys	Lys	Cys
1				5					10					15	

Tyr	Asp	Cys	Cys	Gly	Gly	Lys	Gly	Lys	Gly	Lys	Cys	Tyr	Gly	Pro	Gln
			20					25					30		

Cys	Ile	Cys	Ala	Pro	Tyr
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<210> 18

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<212> PRT

<213> Artificial sequence

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<223> Probable Toxin LQH 8/6 consensus sequence

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 <223> Xaa can be Ala or Thr

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 <222> (16)..(16)
 <223> Xaa can be Asp or Tyr

<400> 18

Cys Xaa Pro Cys Phe Thr Thr Asp Xaa Gln Met Xaa Lys Lys Cys Xaa
 1 5 10 15

Asp Cys Cys Gly Gly Lys Gly Lys Gly Lys Cys Tyr Gly Pro Gln Cys
 20 25 30

Ile Cys

<210> 19
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 <212> PRT
 <213> Mesobuthus martensii

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<400> 19

Met Lys Phe Leu Tyr Gly Ile Val Phe Ile Ala Leu Phe Leu Thr Val
 1 5 10 15

Met Phe Ala Thr Gln Thr Asp Gly Cys Gly Pro Cys Phe Thr Thr Asp
 20 25 30

Ala Asn Met Ala Arg Lys Cys Arg Glu Cys Cys Gly Gly Ile Gly Xaa
 35 40 45

Xaa Lys Cys Phe Gly Pro Gln Cys Leu Cys Asn Arg Ile
 50 55 60

<210> 20
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 <213> Artificial sequence

<220>
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 <223> Xaa can be Lys or Ile

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<400> 20

Cys Xaa Pro Cys Phe Thr Thr Asp Xaa Asn Met Ala Arg Lys Cys Xaa
 1 5 10 15

Asp Cys Cys Gly Gly Xaa Gly Xaa Xaa Lys Cys Phe Gly Pro Gln Cys
 20 25 30

Leu Cys

<210> 21
 <211> 59
 <212> PRT
 <213> Mesobuthus martensii

<400> 21

Met Lys Phe Leu Tyr Gly Ile Val Phe Ile Ala Leu Phe Leu Thr Val
 1 5 10 15

Met Phe Ala Thr Gln Thr Asp Gly Cys Gly Pro Cys Phe Thr Thr Asp
 20 25 30

Ala Asn Met Ala Arg Lys Cys Arg Glu Cys Cys Gly Gly Ile Gly Lys
 35 40 45

Cys Phe Gly Pro Gln Cys Leu Cys Asn Arg Ile
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<210> 22
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<223> Xaa can be Gly or Gln

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<222> (30)..(30)

<223> Xaa can be Pro or Cys

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<221> MISC_FEATURE

<222> (31)..(31)

<223> Xaa can be Gln or Leu

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Cys	Xaa	Pro	Cys	Phe	Thr	Thr	Asp	Xaa	Asn	Met	Ala	Arg	Lys	Cys	Xaa
1				5					10					15	

Asp	Cys	Cys	Gly	Gly	Xaa	Gly	Lys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys
			20					25						30	

<210> 23

<211> 37

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<213> Mesobuthus eupeus

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<222> (1)..(37)

<223> Xaa can be any amino acid

<400> 23

Met	Cys	Met	Pro	Cys	Phe	Thr	Thr	Asp	Pro	Asn	Met	Ala	Asn	Lys	Cys
1				5					10					15	

Arg	Asp	Cys	Cys	Gly	Gly	Xaa	Gly	Lys	Xaa	Lys	Cys	Phe	Gly	Pro	Gln
				20				25					30		

Cys	Leu	Cys	Asn	Arg
				35

<210> 24

<211> 35

<212> PRT

<213> Artificial sequence

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<223> Insect toxin I5 consensus sequence

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 <222> (14)..(14)
 <223> Xaa can be Arg or Asn

 <220>
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 <222> (17)..(17)
 <223> Xaa can be Asp or Arg

 <220>
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 <222> (23)..(26)
 <223> Xaa can be any amino acid

<400> 24

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 1 5 10 15

Xaa Asp Cys Cys Gly Gly Xaa Gly Lys Xaa Lys Cys Phe Gly Pro Gln
 20 25 30

Cys Leu Cys
 35

<210> 25
 <211> 35
 <212> PRT
 <213> Mesobuthus eupeus

<400> 25

Met Cys Met Pro Cys Phe Thr Thr Asp Pro Asn Met Ala Asn Lys Cys
 1 5 10 15

Arg Asp Cys Cys Gly Gly Gly Lys Lys Cys Phe Gly Pro Gln Cys Leu
 20 25 30

Cys Asn Arg
 35

<210> 26
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<220>
 <223> Insect toxin I5 consensus sequence

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 <223> Xaa can be Asp or Arg

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Met Cys Met Pro Cys Phe Thr Thr Asp Xaa Asn Met Ala Xaa Lys Cys
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Xaa Asp Cys Cys Gly Gly Xaa Xaa Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30

Cys

<210> 27
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 <213> Mesobuthus eupeus

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<400> 27

Met Cys Met Pro Cys Phe Thr Thr Arg Pro Asp Met Ala Gln Gln Cys
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Arg Ala Cys Cys Lys Gly Xaa Xaa Arg Gly Lys Cys Phe Gly Pro Gln
 20 25 30

Cys Leu Cys Gly Tyr Asp
 35

<210> 28
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 <223> Xaa can be His or Pro

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 <222> (11)..(11)
 <223> Xaa can be Gln or Asp

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 <222> (14)..(14)

<223> Xaa can be Arg or Gln

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<222> (15)..(15)

<223> Xaa can be Lys or Gln

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<223> Xaa can be Asp or Arg

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<222> (21)..(21)

<223> Xaa can be Gly or Lys

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<222> (23)..(24)

<223> Xaa can be any amino acid

<400> 28

Met	Cys	Met	Pro	Cys	Phe	Thr	Thr	Xaa	Xaa	Xaa	Met	Ala	Xaa	Xaa	Cys
1				5				10						15	

Xaa	Xaa	Cys	Cys	Xaa	Gly	Xaa	Xaa	Arg	Gly	Lys	Cys	Phe	Gly	Pro	Gln
			20					25					30		

Cys	Leu	Cys
		35

<210> 29

<211> 36

<212> PRT

<213> Mesobuthus eupeus

<400> 29

Met	Cys	Met	Pro	Cys	Phe	Thr	Thr	Arg	Pro	Asp	Met	Ala	Gln	Gln	Cys
1				5				10						15	

Arg	Ala	Cys	Cys	Lys	Gly	Arg	Gly	Lys	Cys	Phe	Gly	Pro	Gln	Cys	Leu
			20					25					30		

Cys	Gly	Tyr	Asp
			35

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<211> 33
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<223> Xaa can be Pro or Cys

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<222> (32)..(32)

<223> Xaa can be Gln or Leu

<400> 30

Met	Cys	Met	Pro	Cys	Phe	Thr	Thr	Xaa	Xaa	Xaa	Met	Ala	Xaa	Xaa	Cys
1				5				10						15	

Xaa	Xaa	Cys	Cys	Xaa	Gly	Lys	Gly	Lys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
			20					25						30	

Cys

<210> 31

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<212> PRT

<213> Mesobuthus eupeus

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<222> (1)..(37)

<223> Xaa can be any amino acid

<400> 31

Met	Cys	Met	Pro	Cys	Phe	Thr	Thr	Asp	Pro	Asn	Met	Ala	Lys	Lys	Cys
1				5				10						15	

Arg	Asp	Cys	Cys	Gly	Gly	Asn	Gly	Xaa	Xaa	Lys	Cys	Phe	Gly	Pro	Gln
			20					25						30	

Cys	Leu	Cys	Asn	Arg
			35	

<210> 32
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<220>
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 <222> (25)..(26)
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<400> 32

Met	Cys	Met	Pro	Cys	Phe	Thr	Thr	Asp	Xaa	Asn	Met	Ala	Lys	Lys	Cys
1				5					10					15	

Xaa	Asp	Cys	Cys	Gly	Gly	Xaa	Gly	Xaa	Xaa	Lys	Cys	Phe	Gly	Pro	Gln
			20				25						30		

Cys	Leu	Cys
	35	

<210> 33
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 <213> Mesobuthus eupeus

<400> 33

Met	Cys	Met	Pro	Cys	Phe	Thr	Thr	Asp	Pro	Asn	Met	Ala	Lys	Lys	Cys
1				5					10					15	

Arg	Asp	Cys	Cys	Gly	Gly	Asn	Gly	Lys	Cys	Phe	Gly	Pro	Gln	Cys	Leu
			20				25						30		

Cys	Asn	Arg
	35	

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<223> Insectotoxin 15A consensus sequence

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<222> (32)..(32)
<223> Xaa can be Gln or Leu

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Met Cys Met Pro Cys Phe Thr Thr Asp Xaa Asn Met Ala Lys Lys Cys .
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Xaa Asp Cys Cys Gly Gly Xaa Gly Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 20 25 30

Cys

<210> 35
 <211> 37
 <212> PRT
 <213> Androctonus mauretanicus

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 <223> Xaa can be any amino acid

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Cys Gly Pro Cys Phe Thr Thr Asp Pro Tyr Thr Glu Ser Lys Cys Ala
 1 5 10 15

Thr Cys Cys Gly Gly Xaa Xaa Arg Gly Lys Cys Val Gly Pro Gln Cys
 20 25 30

Leu Cys Asn Arg Ile
 35

<210> 36
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 <223> Xaa can be His or Pro

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 <223> Xaa can be Tyr or Val

<400> 36

Cys	Xaa	Pro	Cys	Phe	Thr	Thr	Asp	Xaa	Xaa	Xaa	Xaa	Xaa	Lys	Cys	Xaa
1				5					10					15	

Xaa	Cys	Cys	Gly	Gly	Xaa	Xaa	Arg	Gly	Lys	Cys	Xaa	Gly	Pro	Gln	Cys
			20					25					30		

Leu Cys

<210> 37
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 <213> Androctonus mauretanicus

<400> 37

Cys	Gly	Pro	Cys	Phe	Thr	Thr	Asp	Pro	Tyr	Thr	Glu	Ser	Lys	Cys	Ala
1				5					10					15	

Thr Cys Cys Gly Gly Arg Gly Lys Cys Val Gly Pro Gln Cys Leu Cys
20 25 30

Asn Arg Ile
35

<210> 38
<211> 32
<212> PRT
<213> Artificial sequence

<220>
<223> Neurotoxin P2 consensus sequence

<220>
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<222> (2)..(2)
<223> Xaa can be Met or Gly

<220>
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<222> (9)..(9)
<223> Xaa can be His or Pro

<220>
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<222> (10)..(10)
<223> Xaa can be Gln or Tyr

<220>
<221> MISC_FEATURE
<222> (11)..(11)
<223> Xaa ca be Met or Thr

<220>
<221> MISC_FEATURE
<222> (12)..(12)
<223> Xaa can be Ala or Glu

<220>
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<222> (13)..(13)
<223> Xaa can be Arg or Ser

<220>
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<222> (16)..(16)
<223> Xaa can be Asp or Ala

<220>
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<222> (17)..(17)
<223> Xaa can be Asp or Thr

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<222> (25)..(25)
<223> Xaa can be Gly or Cys

<220>
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 <222> (26)..(26)
 <223> Xaa can be Lys or Val

<220>
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 <222> (27)..(27)
 <223> Xaa can be Cys or Gly

<220>
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 <222> (28)..(28)
 <223> Xaa can be Tyr or Pro

<220>
 <221> MISC_FEATURE
 <222> (29)..(29)
 <223> Xaa can be Gly or Gln

<220>
 <221> MISC_FEATURE
 <222> (30)..(30)
 <223> Xaa can be Pro or Cys

<220>
 <221> MISC_FEATURE
 <222> (31)..(31)
 <223> Xaa can be Gln or Leu

<400> 38

Cys	Xaa	Pro	Cys	Phe	Thr	Thr	Asp	Xaa	Xaa	Xaa	Xaa	Xaa	Lys	Cys	Xaa
1				5					10					15	

Xaa	Cys	Cys	Gly	Gly	Lys	Gly	Lys	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Cys
			20					25					30		

<210> 39
 <211> 37
 <212> PRT
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<220>
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<220>
 <221> MISC_FEATURE
 <222> (1)..(37)
 <223> Xaa can be any amino acid

<400> 39

Met	Cys	Met	Pro	Cys	Phe	Thr	Thr	Asp	Pro	Asn	Met	Ala	Lys	Lys	Cys
1				5					10					15	

Arg Asp Cys Cys Gly Gly Lys Gly Xaa Xaa Lys Cys Phe Gly Pro Gln
 20 25 30

Cys Leu Cys Asn Arg
 35

<210> 40
 <211> 35
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Toxin consensus sequence

<220>
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 <222> (3)..(3)
 <223> Xaa can be Met, Lys or Ser

<220>
 <221> MISC_FEATURE
 <222> (10)..(10)
 <223> Xaa can be His, Pro, or Gln

<220>
 <221> MISC_FEATURE
 <222> (17)..(17)
 <223> Xaa can be Asp, Ala, or Tyr

<400> 40

Arg Cys Xaa Pro Cys Phe Thr Thr Asp Xaa Gln Met Ser Lys Lys Cys
 1 5 10 15

Xaa Asp Cys Cys Gly Gly Lys Gly Lys Gly Lys Cys Tyr Gly Pro Gln
 20 25 30

Cys Leu Cys
 35

<210> 41
 <211> 35
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Toxin consensus sequence

<400> 41

Met Cys Met Pro Cys Phe Thr Thr Asp Pro Asn Met Ala Arg Lys Cys
 1 5 10 15

Arg Asp Cys Cys Gly Gly Arg Gly Lys Cys Phe Gly Pro Gln Cys Leu

20

25

30

Cys Asn Arg
35

<210> 42
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> Pep8-Ctlx

<400> 42

Cys Gly Gly Lys Gly Arg Gly Lys Cys Tyr
1 5 10

<210> 43
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> Pep8-SCX1_BUTSI

<400> 43

Cys Gly Gly Lys Gly Lys Gly Lys Cys Tyr
1 5 10

<210> 44
<211> 10
<212> PRT
<213> Artificial sequence

<220>
<223> Pep8-AF079059_2

<400> 44

Cys Gly Gly Ile Gly Lys Cys Phe Gly Pro
1 5 10

<210> 45
<211> 12
<212> PRT
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<220>
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<220>
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<222> (4) .. (4)

<223> Xaa can be Lys or Ile

<400> 45

Cys Gly Gly Xaa Gly Arg Gly Lys Cys Phe Gly Pro
1 5 10

<210> 46

<211> 6

<212> PRT

<213> Artificial sequence

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<223> Chlorotoxin Peptide 8 consensus sequence

<220>

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<222> (4)..(4)

<223> Xaa can be Lys or Ile

<400> 46

Cys Gly Gly Xaa Gly Lys
1 5

<210> 47

<211> 10

<212> PRT

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<223> Pep8-NJ0361 sequence

<400> 47

Cys Gly Gly Gly Lys Lys Cys Phe Gly Pro
1 5 10

<210> 48

<211> 12

<212> PRT

<213> Artificial sequence

<220>

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<400> 48

Cys Gly Gly Lys Gly Lys Gly Lys Cys Phe Gly Pro
1 5 10

<210> 49

<211> 6

<212> PRT

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 <222> (4)..(5)
 <223> Xaa can be Lys or Gly

<400> 49

Cys Gly Gly Xaa Xaa Lys
 1 5

<210> 50
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<400> 50

Cys Lys Gly Arg Gly Lys Cys Phe Gly Pro
 1 5 10

<210> 51
 <211> 12
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<220>
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 <222> (3)..(3)
 <223> Xaa can be Gly or Cys

<400> 51

Cys Gly Xaa Lys Gly Arg Gly Lys Cys Phe Gly Pro
 1 5 10

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 <222> (2)..(2)

<223> Xaa can be Gly or Lys

<400> 52

Cys Xaa Gly Lys Gly Lys
1 5

<210> 53

<211> 10

<212> PRT

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<400> 53

Cys Gly Gly Asn Gly Lys Cys Phe Gly Pro
1 5 10

<210> 54

<211> 12

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<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> Xaa can be Lys or Asn

<400> 54

Cys Gly Gly Xaa Gly Arg Gly Lys Cys Phe Gly Pro
1 5 10

<210> 55

<211> 6

<212> PRT

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<222> (4)..(4)

<223> Xaa can be Lys or Asn

<400> 55

Cys Gly Gly Xaa Gly Lys
1 5

<210> 56
 <211> 10
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<400> 56

Cys Gly Gly Arg Gly Lys Cys Val Gly Pro
 1 5 10

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 <222> (10)..(10)
 <223> Xaa can be Tyr or Val

<400> 57

Cys Gly Gly Lys Gly Arg Gly Lys Cys Xaa Gly Pro
 1 5 10

<210> 58
 <211> 6
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<400> 58

Cys Gly Gly Lys Gly Lys
 1 5

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 <211> 12
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<223> Xaa can be Lys or Gly

<400> 59

Cys Gly Gly Xaa Xaa Arg Gly Lys Cys Phe Gly Pro
1 5 10

<210> 60

<211> 10

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<213> Artificial sequence

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<223> Chlorotoxin Peptide 8 consensus sequence

<400> 60

Cys Gly Gly Lys Gly Lys Cys Phe Gly Pro
1 5 10

<210> 61

<211> 10

<212> PRT

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<220>

<223> Chlorotoxin Peptide 21 sequence

<400> 61

Thr Thr Asp His Gln Met Ala Arg Lys Cys
1 5 10

<210> 62

<211> 10

<212> PRT

<213> Artificial sequence

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<223> Pep21-SCX1-BUTSI sequence

<400> 62

Thr Thr Asp Pro Gln Met Ser Lys Lys Cys
1 5 10

<210> 63

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Chlorotoxin Peptide 21 consensus sequence

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> Xaa can be His or Pro

<400> 63

Thr Thr Asp Xaa Gln Met Ala Lys Lys Cys
1 5 10

<210> 64

<211> 10

<212> PRT

<213> Artificial sequence

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<223> Pep21-SCX8_LEIQH sequence

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Thr Thr Asp Gln Gln Met Thr Lys Lys Cys
1 5 10

<210> 65

<211> 10

<212> PRT

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<222> (4)..(4)

<223> Xaa can be His or Gln

<220>

<221> MISC_FEATURE

<222> (7)..(7)

<223> Xaa can be Ala or Thr

<400> 65

Thr Thr Asp Xaa Gln Met Xaa Lys Lys Cys
1 5 10

<210> 66

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Pep21-AF079059_2 sequence

<400> 66

Thr Thr Asp Ala Asn Met Ala Arg Lys Cys
1 5 10

<210> 67
<211> 10
<212> PRT
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<220>
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<222> (4)..(4)
<223> Xaa can be His or Ala

<400> 67

Thr Thr Asp Xaa Asn Met Ala Arg Lys Cys
1 5 10

<210> 68
<211> 10
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<400> 68

Thr Thr Asp Pro Asn Met Ala Asn Lys Cys
1 5 10

<210> 69
<211> 10
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<222> (4)..(4)
<223> Xaa can be either His or Pro

<220>
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<222> (8)..(8)
<223> Xaa can be Arg or Asn

<400> 69

Thr Thr Asp Xaa Asn Met Ala Xaa Lys Cys
1 5 10

<210> 70

<211> 10
 <212> PRT
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<220>
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<400> 70

Thr	Thr	Arg	Pro	Asp	Met	Ala	Gln	Gln	Cys
1				5					10

<210> 71
 <211> 10
 <212> PRT
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 <222> (3)..(3)
 <223> Xaa can be Asp or Arg

<220>
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 <222> (4)..(4)
 <223> Xaa can be His or Pro

<220>
 <221> MISC_FEATURE
 <222> (5)..(5)
 <223> Xaa can be Gln or Asp

<220>
 <221> MISC_FEATURE
 <222> (8)..(8)
 <223> Xaa can be Arg or Gln

<220>
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 <222> (9)..(9)
 <223> Xaa can be Lys or Gln

<400> 71

Thr	Thr	Xaa	Xaa	Xaa	Met	Ala	Xaa	Xaa	Cys
1				5					10

<210> 72
 <211> 10
 <212> PRT
 <213> Artificial sequence

<220>
 <223> Pep21-SCX5_BUTEU sequence

<400> 72

Thr Thr Asp Pro Asn Met Ala Lys Lys Cys
1 5 10

<210> 73

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Chlorotoxin Peptide 21 consensus sequence

<220>

<221> MISC_FEATURE

<222> (4)..(4)

<223> Xaa can be His or Pro

<400> 73

Thr Thr Asp Xaa Asn Met Ala Lys Lys Cys
1 5 10

<210> 74

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Pep21-SCXP_ANDMA sequence

<400> 74

Thr Thr Asp Pro Tyr Thr Glu Ser Lys Cys
1 5 10

<210> 75

<211> 10

<212> PRT

<213> Artificial sequence

<220>

<223> Chlorotoxin Peptide 21 consensus sequence

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<222> (4)..(4)

<223> Xaa can be His or Pro

<220>

<221> MISC_FEATURE

<222> (5)..(5)

<223> Xaa can be Gln or Tyr

<220>

<221> MISC_FEATURE

<222> (6)..(6)
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<220>
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<223> Xaa can be Ala or Glu

<220>
<221> MISC_FEATURE
<222> (8)..(8)
<223> Xaa can be Arg or Ser

<400> 75

Thr Thr Asp Xaa Xaa Xaa Xaa Xaa Lys Cys
1 5 10

<210> 76
<211> 10
<212> PRT
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<220>
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<400> 76

Thr Thr Asp Pro Asn Met Ala Lys Lys Cys
1 5 10

<210> 77
<211> 7
<212> PRT
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<220>
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<400> 77

Thr Asp Pro Gln Met Ser Arg
1 5

<210> 78
<211> 10
<212> PRT
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<220>
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<400> 78

Gly Gly Lys Gly Arg Gly Lys Ser Tyr Gly
1 5 10

<210> 79
<211> 9
<212> PRT
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<220>
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<400> 79

Gly Lys Gly Arg Gly Lys Ser Tyr Gly
1 5

<210> 80
<211> 8
<212> PRT
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<220>
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<400> 80

Lys Gly Arg Gly Lys Ser Tyr Gly
1 5

<210> 81
<211> 7
<212> PRT
<213> Artificial sequence

<220>
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<400> 81

Gly Arg Gly Lys Ser Tyr Gly
1 5

<210> 82
<211> 10
<212> PRT
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<220>
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<400> 82

Thr Thr Asp His Gln Met Ala Arg Lys Ser
1 5 10

<210> 83
<211> 8
<212> PRT
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<220>
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<400> 83
Asp His Gln Met Ala Arg Lys Ser
1 5

<210> 84
<211> 7
<212> PRT
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<220>
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<400> 84

His Gln Met Ala Arg Lys Ser
1 5

<210> 85
<211> 6
<212> PRT
<213> Artificial sequence

<220>
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<400> 85

Gln Met Ala Arg Lys Ser
1 5

<210> 86
<211> 9
<212> PRT
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<220>
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<400> 86

Ala Asp His Gln Met Ala Arg Lys Ser
1 5

<210> 87
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide 21a-A2 sequence

<400> 87

Thr Ala His Gln Met Ala Arg Lys Ser
1 5

<210> 88
<211> 9
<212> PRT
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<220>
<223> Peptide 21a-A3 sequence

<400> 88

Thr Asp Ala Gln Met Ala Arg Lys Ser
1 5

<210> 89
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide 21a-A4 sequence

<400> 89

Thr Asp His Ala Met Ala Arg Lys Ser
1 5

<210> 90
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide 21a-A5 sequence

<400> 90

Thr Asp His Gln Ala Ala Arg Lys Ser
1 5

<210> 91
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide 21a-A7 sequence

<400> 91

Thr Asp His Gln Met Ala Ala Lys Ser
1 5

<210> 92

<211> 9
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide 21a-A8 sequence

<400> 92

Thr Asp His Gln Met Ala Arg Ala Ser
1 5

<210> 93
<211> 9
<212> PRT
<213> Artificial sequence

<220>
<223> Peptide 21a-A9 sequence

<400> 93

Thr Asp His Gln Met Ala Arg Lys Ala
1 5

<210> 94
<211> 9
<212> PRT
<213> Mesobuthus tamulus sindicus

<220>
<223> GenBank Accesssion No. P15229, small toxin

<400> 94

Thr Thr Asp Gln Gln Met Ser Lys Lys
1 5

<210> 95
<211> 9
<212> PRT
<213> Leiurus quinquestriatus hebraeu

<220>
<223> GenBank Accession No. P55966, probable toxin

<400> 95

Thr Thr Asp Pro Gln Met Ser Lys Lys
1 5